






# **Spring Course Semiconducting Nanoparticles: *Synthesis and Structure***

**9th to 11th of May  
2007 Duisburg, Germany**






visit of HMK steel plant in Duisburg on 11th of May by part of the Nanotronics Spring Course participants

## Wednesday, 9th of May 2007: Spring Course

time	speaker	title	chair
08:15	Markus Winterer	<i>Welcome</i>	
08:30	Sotiris E. Pratsinis ETH Zürich	<i>Selected Fundamentals and Simulations of Aerosol Nanoparticle Formation</i> 	Winterer
10:00		<i>coffee break / poster session</i>	
10:30	Uwe Kortshagen U Minneapolis	<i>Nonthermal Plasma Synthesis of Semiconductor Nanocrystals</i> 	Wiggers
12:00		<i>lunch break</i>	
13:00	Horst Weller U Hamburg	<i>Liquid Phase Synthesis</i> 	Wiggers
14:30		<i>coffee break / poster session</i>	
15:30	David Norris U Minneapolis	<i>Liquid Phase Synthesis</i> 	Lorke
17:00		<i>coffee break / poster session</i>	
17:30	Thomas Weirich RWTH Aachen	<i>Transmission Electron Microscopy</i> 	Lorke
19:00		<i>informal lab tours</i>	

**Thursday, 10th of May 2007: Spring Course**

time	speaker	title	chair
09:00	Peter Albers Degussa AG	<i>Morphology and Surface Properties of Nanoparticles: Charaterization of Nanoparticles</i> 	Ebbers
10:00		<i>coffee break / poster session</i>	
10:30	Zimmermann and Arkadi Maisels Degussa AG	<i>Reactor Concepts and Processes for Synthesis of Nanoparticles</i>	Ebbers
12:00		<i>lunch break</i>	
13:00	Hisazumi Akai U Osaka	<i>Green's Function Method in Electronic-Structure Calculation</i> 	Entel
14:30		<i>coffee break / poster session</i>	
15:30	Peter Dederichs FZ Jülich	<i>Density Functional Theory: Dilute Magnetic Semiconductors</i> 	Entel
17:00		<i>informal lab tours</i>	

**Friday, 11th of May 2007: Spring Course**

time	speaker	title	chair
	<b>postponed</b> till fall 2007 (Thomas Proffen LANL)	<i>PDF Analysis of Scattering Data</i>	
10:00	coffee break / poster session		
10:30	Luca Lutterotti  U Trento	<i>Rietveld Refinement</i>  	Wolf
12:00	lunch break		
	Greg Beaucage  U Cincinnati	SAXS  	Wolf
14:30	<i>Transfer to Social Event (bus) from Bismarkstrasse 85</i>		
15:00	<p align="center"><i>Social Event</i></p> <p align="center"><i>Visit of HKM steel plant in Duisburg</i></p>		
18:00	<i>Transfer to Restaurant</i>		
18:30	<p align="center"><i>Dinner at Faktorei in Duisburg Harbor</i></p> <p align="center"><i>(open end)</i></p>		

Photos from the visit of the HKM steel plant on 11th of May 2007



## List of Participants – 1

#	Last Name	First Name	Institution	speaker*
01	Abdali	Ali	University Duisburg-Essen	
02	Akai	Hisazumi	Osaka University	I
03	Aksoy	Seda	University Duisburg-Essen	
04	Akyildiz	Erdal	University Duisburg-Essen	
05	Albers	Peter	Degussa GmbH	I
06	Ali	Moazzam	University Duisburg-Essen	O
07	Banys	Juras	Vilnius University	
08	Beaucage	Gregory	University of Cincinnati	I
09	Bertoni	Mariana	Degussa GmbH	
10	Buschmann	Stephan	University Duisburg-Essen	O
11	Cho	Yongsang	University Duisburg-Essen	
12	Dederichs	Peter	FZ Jülich	I
13	Djenadic	Ruzica	University Duisburg-Essen	
14	Dörfler	Udo	University Duisburg-Essen	
15	Ebbers	Andre	Degussa GmbH	
16	Entel	Peter	University Duisburg-Essen	
17	Fissan	Heinz	University Duisburg-Essen	
18	Galassi	Carmen	ISTEC-CNR	
19	Gondorf	Andreas	University Duisburg-Essen	O
20	Gruner	Markus	University Duisburg-Essen	
21	Gupta	Anoop	University Duisburg-Essen	O
22	Hartner	Sonja	University Duisburg-Essen	
23	Ifeacho	Pascal	University Duisburg-Essen	
24	Kortshagen	Uwe	University of Minnesota	I
25	Kowalik	Andreas	University Duisburg-Essen	
26	Kruis	Einar	University Duisburg-Essen	
27	Kümmell	Tilmar	University Duisburg-Essen	
28	Lorke	Axel	University Duisburg-Essen	
29	Lutterotti	Luca	University of Trento	I

\* Speakers: Invited lecturers: I; Oral contributors of the research training Group: O

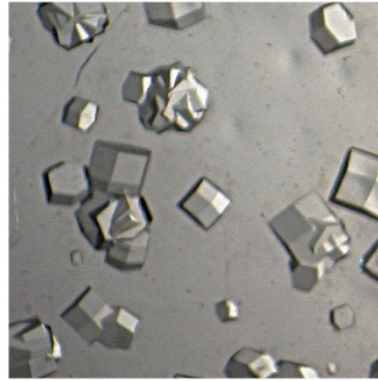
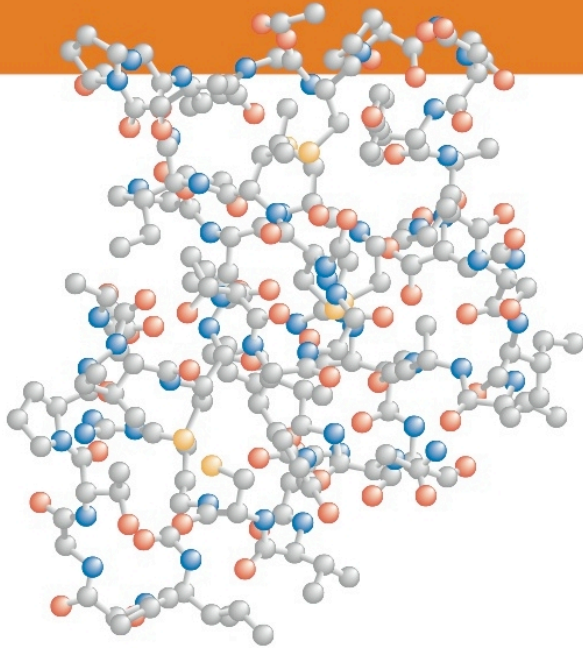
## List of Participants – 2

#	Last Name	First Name	Institution	speaker
30	Maisels	Arkadi	Degussa GmbH	I
31	Möller	Kristof	University Duisburg-Essen	
32	Nanni	Paolo	University of Genoa	
33	Nayak	Sanjeev Kumar	University Duisburg-Essen	
34	Neshataeva	Ekaterina	University Duisburg-Essen	O
35	Norris	David	University of Minnesota	I
36	Offer	Matthias	University Duisburg-Essen	
37	Omerbegovic	Kemal	University Duisburg-Essen	
38	Plümel	Ingo	University Duisburg-Essen	
39	Pratsinis	Sotiris	ETH Zürich	I
40	Regolin	Ingo	University Duisburg-Essen	
41	Rier	Christoph	University Duisburg-Essen	O
42	Roy Chowdhury	Sankhanilay	University Duisburg-Essen	
43	Sahoo	Sanjubala	University Duisburg-Essen	
44	Schmechel	Roland	University Duisburg-Essen	
45	Schneider	Lars	University Duisburg-Essen	O
46	Schulz	Christof	University Duisburg-Essen	
47	Schwesig	Dominik	University Duisburg-Essen	
48	Srdic	Vladimir	Faculty of Technology	
49	Stojanovic	Biljana	Centre für Multidisciplinary Studying	
50	Tabary	Farzin	University Duisburg-Essen	
51	Trocha	Martin	Degussa GmbH	
52	Walther	Sabine	FAU Erlangen-Nürnberg	
53	Weirich	Thomas E.	RWTH Aachen	I
54	Weller	Horst	University Hamburg	I
55	Wiggers	Hartmut	University Duisburg-Essen	
56	Winterer	Markus	University Duisburg-Essen	
57	Wolf	Dietrich	University Duisburg-Essen	
58	Zilly	Matias	University Duisburg-Essen	O
59	Zimmermann	Guido	Degussa GmbH	I

\* Speakers: Invited lecturers: I; Oral contributors of the research training Group: O

# X-RAY DIFFRACTION

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PANalytical X'Pert PRO high-performance X-ray diffraction (XRD) systems can significantly enhance nanomaterials research. X'Pert PRO delivers structural characterization of a wide range of materials used in nanoscience and technology – from semiconductor thin films and nanocrystalline coatings to proteins and nanopowders – and can be used in applications from fundamental research to routine analysis.

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### X'Pert PRO systems

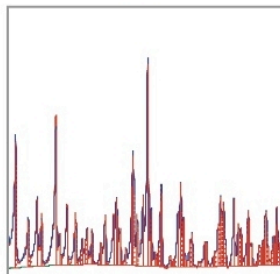
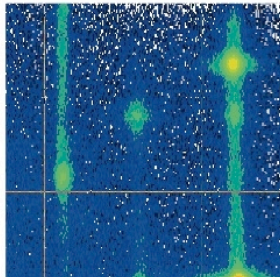
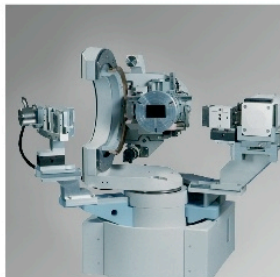
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- X'Pert PRO MRD exploits high-resolution optics to measure highly perfect structures.
- X'Pert PRO MPD offers structural solutions for the analysis of polycrystalline nanomaterial from in situ measurements under controlled conditions to micro-diffraction experiments.

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To find out how PANalytical's systems can advance your research on nanomaterials, contact:

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The Analytical X-ray Company

